

WHAT IS CLAIMED IS:

- 1 1. A method comprising:

2 receiving an RF (radio frequency) signal over a power plane of a circuit
3 board, the RF signal corresponding to a digital signal;

4 filtering out unwanted frequencies in the RF signal; and

5 demodulating the filtered RF signal to recover the digital signal.
- 1 2. The method of claim 1, wherein the digital signal is generated from a first
2 device, the corresponding RF signal is received on a second device, and
3 the first and the second devices are both coupled to the first circuit board.
- 1 3. The method of claim 1, wherein said filtering out the unwanted frequencies
2 comprises filtering out a range of frequencies that is out of a range of a
3 preallocated frequency range for communication between devices on the
4 circuit board.
- 1 4. The method of claim 3, wherein said filtering out the unwanted frequencies
2 additionally comprises filtering out a range of frequencies that is out of a
3 range of a preallocated frequency range for a device producing the digital
4 signal.
- 1 5. A method comprising:

2 generating a digital signal at a first device on a circuit board having at
3 least one power plane, the digital signal to be sent to a second

4 device;
5 modulating an RF (radio frequency) signal based upon the digital signal;
6 and
7 transmitting the modulated RF signal using one of the at least one power
8 planes.

1 6. The method of claim 5, wherein the RF signal is modulated based on the
2 digital signal in accordance within a preallocated frequency range for the
3 circuit board.

1 7. The method of claim 6, wherein the RF signal is modulated based on the
2 digital signal in accordance with a preallocated frequency range for the
3 first device.

1 8. The method of claim 5, additionally comprising:
2 receiving the RF signal at the second device;
3 filtering out unwanted frequencies in the RF signal; and
4 demodulating the filtered RF signal to recover the digital signal.

1 9. The method of claim 8, wherein the first device is on the first circuit board.

1 10. The method of claim 8, wherein said filtering out the unwanted frequencies
2 comprises filtering out a range of frequencies that is out of a range of a
3 preallocated frequency range for communication between devices on the
4 circuit board.

- 1 11. The method of claim 10, wherein said filtering out the unwanted
2 frequencies additionally comprises filtering out a range of frequencies that
3 is out of a range of a preallocated frequency range for a device producing
4 the digital signal.
- 1 12. A system comprising:
2 a first circuit board having at least one first power plane;
3 a plurality of devices, some of which are coupled to the first circuit board,
4 and some of which are coupled to one of the at least one first
5 power planes;
6 at least one RF signal transmitter coupled to some of the plurality of
7 devices, the RF signal transmitter capable of modulating an RF
8 signal based on a digital signal in accordance with a range of
9 preallocated frequencies in a radio frequency spectrum.
- 1 13. The system of claim 12, wherein one of the at least one RF signal
2 transmitters is integrated into one of the plurality of RF devices.
- 1 14. The system of claim 12, wherein some of the at least one RF signal
2 transmitters additionally modulates RF signals in accordance with a range
3 of preallocated frequencies for a device producing the digital signal.
- 1 15. The system of claim 12, wherein at least two of the plurality of devices
2 communicate via signal routes.

- 1 16. The system of claim 12, additionally comprising a second circuit board
2 having at least one second power plane, and others of the plurality of
3 devices are coupled to the second circuit board, and some of which are
4 coupled to one of the at least one second power planes.
- 1 17. The system of claim 16, wherein a sending device coupled to the first
2 circuit board transmits signals to a receiving device coupled to the second
3 circuit board using at least one of the RF signal transmitters.
- 1 18. The system of claim 12, additionally comprising an RF signal receiver
2 coupled to some of the plurality of devices, the RF signal receiver capable
3 of demodulating an RF signal to recover the digital signal.
- 1 19. The system of claim 18, wherein the RF signal transmitter and the RF
2 signal receiver are integrated into a single component.